

Rabbit N-Cadherin Polyclonal Antibody | anti-CDH2 antibody

Ncadherin Polyclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA36656	Rabbit	Human, Mouse, Rat	Flow Cytometry, Functional Assay, Immunoprecipitation, Immunocytochemistry, Immunohistochemistry, Western Blot

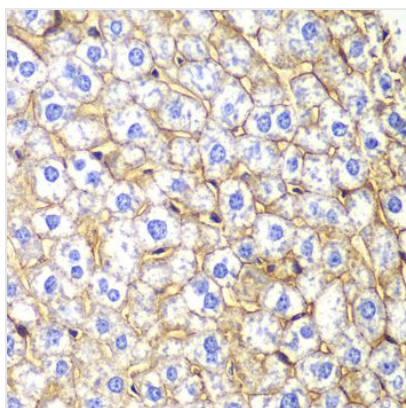
PRODUCT SYNONYMS

N-Cadherin; Polyclonal Antibody; Ncadherin Polyclonal Antibody; CDH2; CD325 ; CDHN ; CDw325; NCAD; Cadherin-2; CDw325 ; Neural cadherin ;; anti-CDH2 antibody

PRODUCT SPECIFICATIONS

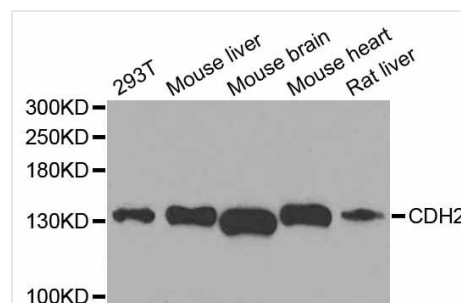
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity purification
Sequence Length	906
Applicable Applications for anti-CDH2 antibody	FCM/FACS (Flow Cytometry), IP (Immunoprecipitation), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic -peptide of human N-cadherin
Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Preparation and Storage	Store at -20 degree C or -80 degree C. Avoid freeze / thaw cycles

IMAGES



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded mouse liver using CDH2 Antibody at dilution of 1:100 (40x lens).



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using CDH2 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit. Exposure time: 90s.

ADDITIONAL INFORMATION

Related Product Information for anti-CDH2 antibody	Cadherins are a superfamily of transmembrane glycoproteins that contain cadherin repeats of approximately 100 residues in their extracellular domain. Cadherins mediate calcium-dependent cell-cell adhesion and play critical roles in normal tissue development (1). The classic cadherin subfamily includes N-, P-, R-, B-and E-cadherins, as well as about ten other members that are found in adherens junctions, a cellular structure near the apical surface of polarized epithelial cells. The cytoplasmic domain of classical cadherins interacts with beta-catenin, gamma-catenin (also called plakoglobin), and p120 catenin. beta-catenin and gamma-catenin associate with alpha-catenin, which links the cadherin-catenin complex to the actin cytoskeleton (1,2). While beta-and gamma-catenin play structural roles in the junctional complex, p120 regulates cadherin adhesive activity and trafficking (1-4). E-cadherin is considered an active suppressor of invasion and growth of many epithelial cancers (1-3). Recent studies indicate that cancer cells have up-regulated N-cadherin in addition to loss of E-cadherin. This change in cadherin expression is called the "cadherin switch". N-cadherin cooperates with the FGF receptor, leading to overexpression of MMP-9 and cellular invasion (3). In endothelial cells, VE-cadherin signaling, expression, and localization correlate with vascular permeability and tumor angiogenesis (5,6). Expression of P-cadherin, which is normally present in epithelial cells, is also altered in ovarian and other human cancers (7,8).
References	1. Wheelock, M.J. and Johnson, K.R. (2003) Annu. Rev. Cell. Dev. Biol. 19, 207-235. 2. Christofori, G. (2003) EMBO J. 22, 2318-2323. 3. Hazan, R.B. et al. (2004) Ann. NY Acad. Sci. 1014, 155-163. 4. Bryant, D.M. and Stow, J.L. (2004) Trends Cell Biol. 14, 427-434. 5. Rabascio, C. et al. (2004) Cancer Res. 64, 4373-4377. 6. YamaokaTojo, M. et al. (2006) Arterioscler. Thromb. Vasc. Biol. 26, 1991-1997. 7. Patel, I.S. et al. (2003) Int. J. Cancer 106, 172-177. 8. Sanders, D.S. et al. (2000) J. Pathol. 190, 526-530.

NCBI AND UNIPROT INFORMATION

NCBI GI #	14589889
NCBI GeneID	1000
NCBI Accession #	NP_001783.2
NCBI GenBank Nucleotide #	NM_001792.3
UniProt Accession #	P19022; Q14923; Q8N173; B0YIY6
Molecular Weight	140kDa
NCBI Official Full Name	cadherin-2 preproprotein
NCBI Official Synonym Full Names	cadherin 2, type 1, N-cadherin (neuronal)
NCBI Official Symbol	CDH2
NCBI Official Synonym Symbols	CDHN; NCAD; CD325; CDw325
NCBI Protein Information	cadherin-2; N-cadherin 1; neural cadherin; neural-cadherin; cadherin 2, N-cadherin (neuronal); calcium-dependent adhesion protein, neuronal
UniProt Protein Name	Cadherin-2
UniProt Gene Name	CDH2
UniProt Synonym Gene Names	CDHN; NCAD; N-cadherin
UniProt Entry Name	CADH2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.